

Thank you for purchasing **KOSO RX2NR**, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

## Notice

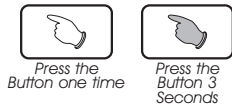
- Power supply: battery (9V-1604, 6LR61.)
- For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
- Don't break or modify the wire terminal. To avoid the short circuit, please don't pull the wire when installing.
- Do not disassemble or change any parts excluding the manual description.
- The interior examination or maintenance should be executed by our professionals.

## MARK MEANING:

**NOTE** You could get the installation details from the information behind the mark.

△ Some processes must be followed to avoid the affection caused by wrong installation.

△ **WARNING!** Some processes must be followed to avoid damages to yourself or the public.



## 1-1 Accessory

1

Meter X 1

2

Main wiring X 1

3

RPM wire (Type A) X 1

4

RPM wire (Type B) X 1

5

Temp sensor wire X 1

6

PT 1/8 water temp sensor X 1

7

Battery case X 1

8

Foam X 1

9

Bind X 1

10

3 mm spanner X 1

11

Meter bracket X 1

12

M4 screw X 3

13

M5 gasket X 3

14

M6 X 35L screw X 2

15

M8 X 30L screw X 2

16

M6 screw X 2

17

M8 screw X 2

18

M6 gasket X 2

19

M8 gasket X 2

**NOTE** Please contact the local distributor if the items you open are not the same, with the above-listed one.

## 1-2 Option accessory

1

Temp sensor wire (2 M)

2

Oil temp sensor adapter

M12 X P1.5 X 15L  
M14 X P1.25 X 15L  
M14 X P1.5 X 15L  
M16 X P1.5 X 15L  
M18 X P1.5 X 15L  
M20 X P1.0 X 15L  
M20 X P1.5 X 15L

3

Water temp sensor adapter

M14  
M16.M18  
M22.M26 mm

4

Temp sensor

M10 X P1.0  
M12 X P1.5  
M14 X P1.25  
M14 X P1.5  
M16 X P1.5 / M18 X P1.5

5

Cylinder head temp sensor

M10.  
M14 mm

6

Meter bracket (For handle bar)

**NOTE** Some of the option accessories may not sell. For the details, please contact the local distributor.

## 2-1 Wiring installation instructions

**RPM wiring reference:**

YAMAHA	Yellow / Black	BUELL	Pink
HONDA	Yellow / Green	CAGIVA	Gray / Green
SUZUKI	Yellow / Blue	DUCATI	Gray / Green
KAWASAKI	Light Blue	H-D	Pink
APRILIA	Gray / Violet	MV	Gray / Yellow
BMW	Black	TRIUMPH	Red
BENELLI	Gray / Violet		

**NOTE** The color listed above may differ depending on the model.

**NOTE** The temperature will disappear if you don't install & connect the temperature sensor with the meter.

△ The RPM wire installation

**A.** Please wrap the RPM wire at least 5 times around the spark plug.

**A1.** Please use tape to fix the RPM (Type A) wire onto the spark plug wire.

**A2.** Please use tape to fix the RPM wire (Type A) on the spark plug cap.

**A3.** Please use tape to fix the RPM wire (Type A) on the coil positive pole wire. For some models with the coil negative wire, please tape the RPM wire (Type A) on the negative wire to get the RPM signal. (For example, the YAMAHA V-max 1200)

**B.** Please connect the RPM wire (type B) to connect to the ignition coil positive pole.

**B1.** Please wrap the RPM wire (type B) on the spark plug wire by connecting the male and female connector.

**C.** Please connect the RPM wire (Type A) to the pick up.

**D.** Please parallel the RPM wire (Type A) with the original tachometer signal wire (This method is available only when the original speedometer comes with a tachometer on it. You could get the RPM wire information from the service manual of your bikes.)

**E.** For the models comes with the new ignition coil, please wrap the RPM wire (Type A) at least 5 times around the spark plug as the above drawing.

**For multi-ignition models, we will suggest you to get the signal on the first ignition.**

**The best signal source will be in order as D>C>B>A, we will suggest you to check different ways if you have problems to get the RPM signal.**

## 2-2 Installation instructions

**When installing, please follow the process**

- M6 or M8 screw X 2 (Accessory 14, 15)
- M6 or M8 aluminum screw washer X 2 (Accessory 16, 17)
- Bracket (Accessory 11)
- M6 or M8 bushing X 2 (Accessory 18, 19)
- Handle bar bracket

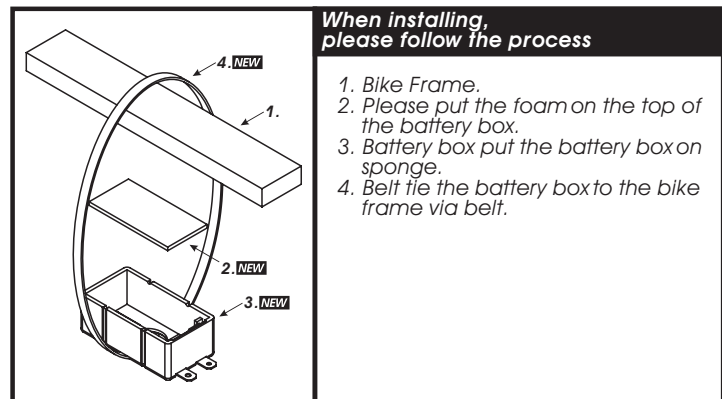
**NOTE** You could also install it (Meter bracket) on the original meter bracket.

- M5 screw X 3 (Accessory 12)
- M5 washer X 3 (Accessory 13)
- Meter (Accessory 1)
- Meter bracket micro-adjustment screw

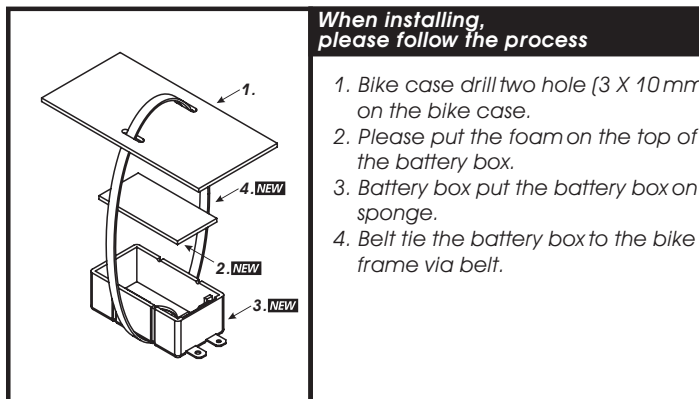
**NOTE** You could choose the angle first and then use the screw to fix the angle.

**NOTE** The handle bar bracket screw and screw hole will differ depending on different model. We suggest you to use the additional assembly (Item 1.2.4) to fit it.

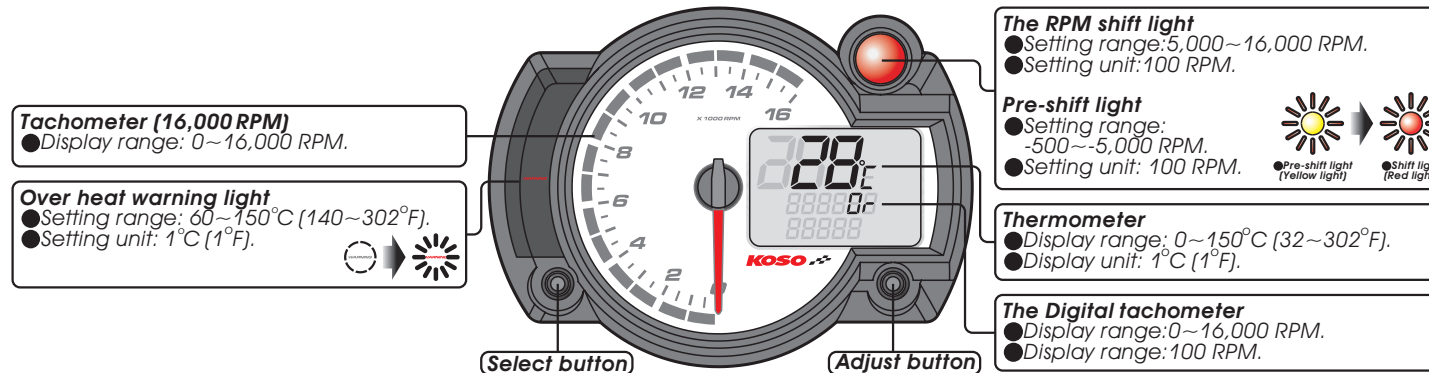
## 2-3 The instruction of battery box fix to the bike frame



## 2-4 The instruction of battery box fix to the bike case



## 3-1 Overview



## 3-2 Function, setting instruction

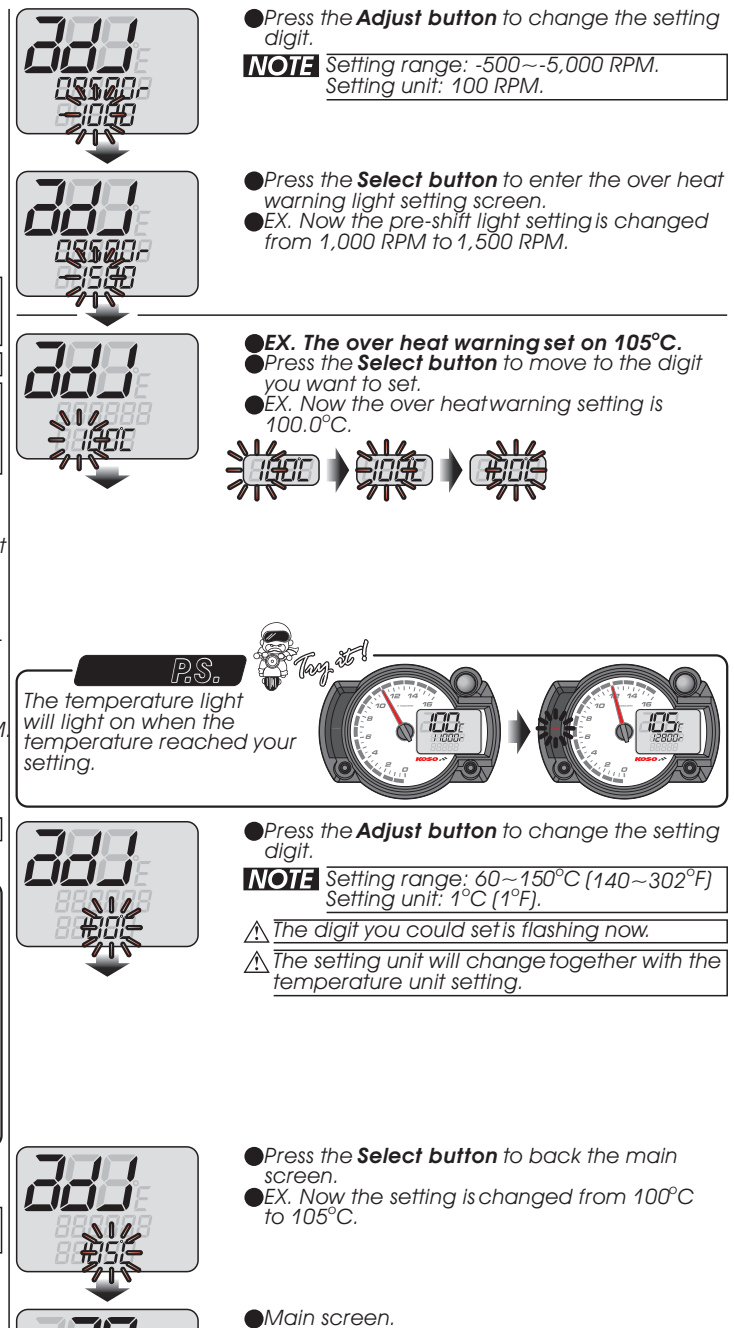
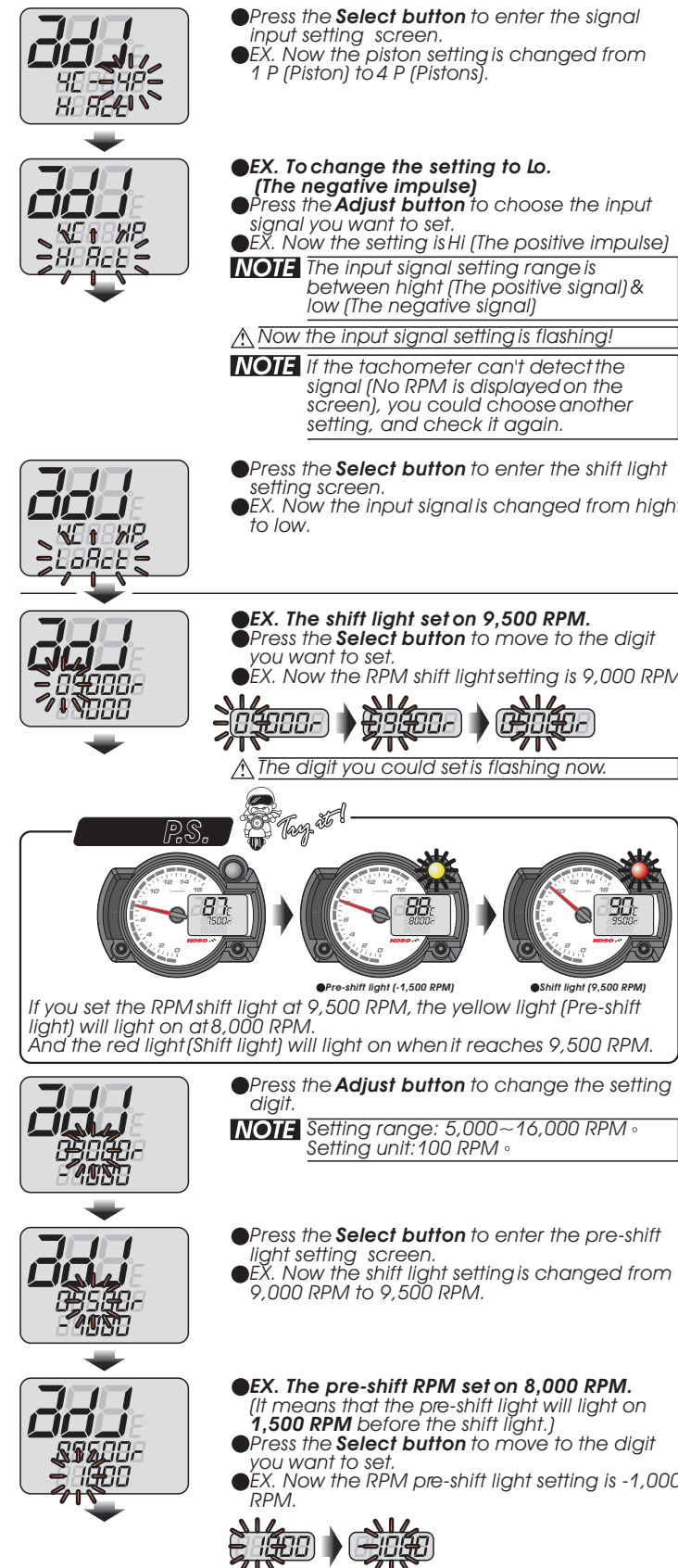
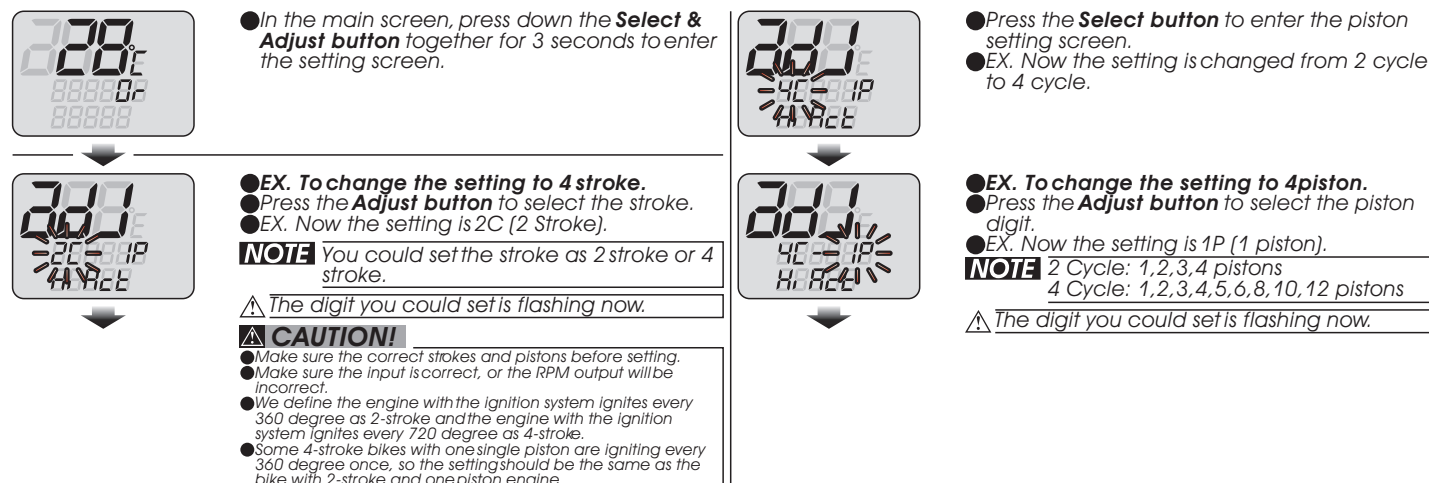
●Needle tachometer	Display range: 0~16,000 RPM	●Thermometer	Display range: 0~150°C (0~302°F)
●Digital tachometer	Display range: 0~16,000 RPM	●Display internal	Display unit: 0.1°C (0.1°F)
○Display internal	Display unit: 100 RPM	○Over heat warning light	Setting range: 60~150°C (140~302°F)
○Shift light	Setting range: 5,000~16,000 RPM	Setting unit: 1°C (1°F)	
○Pre-Shift light	Setting range: -500~-5,000 RPM	●Battery type	9V-1604, 6LR61
Setting unit: 100 RPM		●Effective temperature range	-10~+60°C
○Stroke / piston setting	Setting range: 2 Stroke: 1, 2, 3, 4 pistons	●Meter standard	JIS D 0203 S2
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons		●Meter size	135.7 X 100.7 X 52 mm
		●Meter weight	Around 240 g

**NOTE** Design and specification are subject to change without notice!

## 4-1 Adjust button function instruction



## 4-2 Cycle / Piston / Input signal setting



## 5 Trouble shooting

The following situation do not indicate malfunction of the meter. Please check the following before taking it in for repair.

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	●The power doesn't supply to the meter. →Please make sure the wiring is connected. The wiring and fuse are not broken. →The battery is broken or the battery is too old to supply enough power (DC 9 V) to make the meter work.	Temp does not appear or appear incorrectly.	●Please check the spark plug is R type or not. If not, please replace the spark plug with the R type spark plug. ●Please check your setting. →Please refer to the manual 4-2. ●Please check the sensor. →Does the wiring break or falling off?
The meter shows wrong information.	●Please check the voltage of your battery, and make sure the voltage is over DC 9 V. ●Please check the RPM sensor wiring is connected correctly.		

※If still can't solve the problems according to the steps above, please contact with distributors or us.